MICROBIAL ECOLOGY

VOLUME 8 1982/1983

EDITORIAL BOARD

Ralph Mitchell
Editor-in-Chief

Pierce Hall
Harvard University
Cambridge, Massachusetts 02138

Paul J. Boyle
Assistant Editor

Edgerton Research Laboratory
New England Aquarium
Central Wharf
Boston, Massachusetts 02110

Martin Alexander
Department of Agronomy
Cornell University
Ithaca, New York

John A. Breznak
Department of Microbiology
Michigan State University
East Lansing, Michigan

Rita Colwell
Department of Microbiology
University of Maryland
College Park, Maryland

J. W. Costerton
Department of Biology
University of Calgary
Calgary, Alberta, Canada

Tom Fenchel
Institute of Ecology
University of Aarhus
Aarhus, Denmark

Madilyn M. Fletcher
Department of
Environmental Sciences
University of Warwick
Coventry, England

Wolfgang Fuhs
New York State
Department of Health
Albany, New York

Ron Gibbons
Forsyth Dental Center
Boston, Massachusetts

Joel Goldman
Woods Hole Oceanographic
Institution
Woods Hole, Massachusetts

Peter Hirsch
Institute for Microbiology
University of Kiel
Kiel, Germany

John Hobbie
Marine Biological
Laboratory
Woods Hole, Massachusetts

Maurits laRivière
International Institute for
Hydraulic and Environmental
Engineering
Delft Institute of Technology
Oude Delft 95
Delft, the Netherlands

Carol Litchfield
Haskell Laboratory
E.I. DuPont de Nemours
Newark, Delaware

Kevin Marshall
University of New South Wales
Kensington, N.S.W.
Australia

Jürgen Overbeck
Max-Planck Institut für
Limnologie
Plön, Germany

Dwayne C. Savage
Department of Microbiology
University of Illinois
Urbana, Illinois

Moshe Shilo
Department of Microbiology
The Hebrew University
Jerusalem, Israel

James Staley
Department of Microbiology
University of Washington
Seattle, Washington

Karl Wuhrmann
Eidgenössische
Technische Hochschule
Zurich, Switzerland

DESCRIPTION OF THE JOURNAL

Microbial Ecology, an international journal, will accept papers in those branches of ecology in which microorganisms are involved. Articles describing significant advances in the microbiology of natural ecosystems will be considered as well as those describing new methodology. In addition, the journal will accept reports describing microbiological processes associated with environmental pollution, and papers describing the ecology of all microorganisms including procaryotes, eucaryotes, and viruses will be published.

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use,

Printed in the United States of America

© 1982/1983 by Springer-Verlag New York Inc.

Index to Volume 8

Albisetti, J., see Mouches, C., et al. 387
Arianoutsou-Faraggitaki, M., Margaris, N. S.: Decomposers and the Fire Cycle in a Phryganic (East Mediterranean) Ecosystem 91
Atlas, R.: *Book Review,* Bacteria and the Enhancement of Oil Recovery, by V. Moses and D. G. Springham 282
Attwell, R. W., see Xu, H.-S., et al. 313
Azam, F., see Riemann, B., et al. 101
Baldock, B. M., Rogerson, A., Berger, J.: Further Studies on Respiratory Rates of Freshwater Amoebae (Rhizopoda, Gymnamoebia) 55
Basham, H. G., see McCoy, R. E., et al. 169
Berger, J., see Baldock, B. M., et al. 55
Bianchi, A. J. M., see Bianchi, M. A. G. 61
Bianchi, M. A. G., Bianchi, A. J. M.: Statistical Sampling of Bacterial Strains and Its Use in Bacterial Diversity Measurement 61
Blair, W. R., Olson, G. J., Brinckman, F. E., Iverson, W. P.: Accumulation and Fate of Tri-n-butyltin Cation in Estuarine Bacteria 241
Bottone, E. J., see Janda, J. M., et al. 335
Bové, J. M., see Mouches, C., et al. 387
Bradford, Jr., H. B., see Roberts, N. C., et al. 299
Brannan, D. K., Caldwell, D. E.: Evaluation of a Proposed Surface Colonization Equation Using *Thermothrix thiopara* as a Model Organism 15
Brinckman, F. E., see Blair, W. R., et al. 241
Brown, M., see Taylor, D. N., et al. 347
Caldwell, D. E., see Brannan, D. K. 15
Canale, R. P., see Graham, J. M. 217
Chrzanowski, T. H., Stevenson, L. H., Spurrier, J. D.: Transport of Microbial Biomass through the North Inlet Ecosystem 139
Clark, T. B., see Mouches, C., et al. 387
Clark, T. B., Whitcomb, R. F., Tully, J. G.: Spiroplasmas from Coleopterous Insects: New Ecological Dimensions 401
Colwell, R. R., see Xu, H.-S., et al. 313
Daggett, P.-M., Sawyer, T. K., Nerad, T. A.: Distribution and Possible Interrelationships of Pathogenic and Nonpathogenic *Acanthamoeba* from Aquatic Environments 371
Daily, O. P., see LeChevallier, M. W., et al. 325
Das, A., see Janda, J. M., et al. 335
Davis, R. E., see McCoy, R. E., et al. 169
Dickson, M. R., see Garland, C. D., et al. 181
Evans, T. M., see LeChevallier, M. W., et al. 325
Fallon, R. D., see Newell, S. Y. 33
Federici, F., see Rosini, G., et al. 83
Federle, T. W., McKinley, V. L., Vestal, J. R.: Physical Determinants of Microbial Colonization and Decomposition of Plant Litter in an Arctic Lake 127
Felix, E. A., see Rushforth, S. R. 157
Fredrickson, A. G., see Swift, S. T., et al. 201
Fuhrman, J., see Riemann, B., et al. 101
Garland, C. D., Lee, A., Dickson, M. R.: Segmented Filamentous Bacteria in

the Rodent Small Intestine: Their Colonization of Growing Animals and Possible Role in Host Resistance to *Salmonella* 181
Graham, J. M., Canale, R. P.: Experimental and Modeling Studies of a Four-Trophic Level Predator-Prey System 217
Grimes, D. J., see Xu, H.-S., et al. 313
Haack, T. K., McFeters, G. A.: Nutritional Relationships Among Microorganisms in an Epilithic Biofilm Community 115
Hayward, A. C., see Moriarty, D. J. W. 1
Imai, I., see Ishida, Y., et al. 23
Inniss, W. E., see Trevors, J. T., et al. 163
Ishida, Y., Imai, I., Miyagaki, T., Kadota, H.: Growth and Uptake Kinetics of a Facultatively Oligotrophic Bacterium at Low Nutrient Concentrations 23
Iverson, W. P., see Blair, W. R., et al. 241
Janda, J. M., Sheehan, D. J., Das, A., Bottone, E. J.: Gentamicin-Resistant *Pseudomonas aeruginosa*: Concepts Regarding Their Evolution and Attenuated Virulence 335
Jansson, H.-B.: Predacity by Nematophagous Fungi and Its Relation to the Attraction of Nematodes 233
Jensen, L. M., Søndergaard, M.: Abiotic Formation of Particles from Extracellular Organic Carbon Released by Phytoplankton 47
Joseph, S. W., see LeChevallier, M. W. et al. 325
Kadota, H., see Ishida, Y., et al. 23
Kaper, J. B., see Roberts, N. C., et al. 299
Lachance, M.-A., Metcalf, B. J., Starmer, W. T.: Yeasts from Exudates of *Quercus, Ulmus, Populus,* and *Pseudotsuga*: New Isolations and Elucidation of Some Factors Affecting Ecological Specificity 191
la Rivière, J. W. M.: *Book Review,* Environmental Microbiology, by W. D. Grant and P. E. Long 199
LeChevallier, M. W., Evans, T. M., Seidler, R. J., Daily, O. P., Merrell, B. R., Rollins, D. M., Joseph, S. W.: *Aeromonas sobria* in Chlorinated Drinking Water Supplies 325
Lee, A., see Garland, C. D., et al. 181
Levandowsky, M.: *Book Review,* Microbial Ecology: A Conceptual Approach, edited by J. M. Lynch and N. J. Poole 281
McCoy, R. E., Basham, H. G., Davis, R. E.: Powder Puff Spiroplasma: A New Epiphytic Mycoplasma 169
McDermott, K. T., see Taylor, D. N., et al. 347
McFeters, G. A., see Haack, T. K. 115
McKinley, V. L., see Federle, T. W., et al. 127
Margaris, N. S., see Arianoutsou-Faraggitaki, M. 91
Martini, A., see Rosini, G. et al. 83
Mayfield, C. I., see Trevors, J. T., et al. 163
Merrell, B. R., see LeChevallier, M. W., et al. 325
Metcalf, B. J., see Lachance, M-A., et al. 191
Miyagaki, T., see Ishida, Y., et al. 23
Moriarty, D. J. W., Hayward, A. C.: Ultrastructure of Bacteria and the Proportion of Gram-Negative Bacteria in Marine Sediments 1
Mouches, C., Bové, J. M., Albisetti, J., Clark, T. B., Tully, J. G.: A Spiroplasma

of Serogroup IV Causes a May-disease-like Disorder of Honeybees in Southwestern France 387
Mundt, J. O.: The Ecology of the Streptococci 355
Myers, W. F., see Westfall, H. N., et al. 287
Najita, I. Y., see Swift, S. T., et al. 201
Nerad, T. A., see Daggett, P.-M., et al. 371
Newell, S. Y., Fallon, R. D.: Bacterial Productivity in the Water Column and Sediments of the Georgia (USA) Coastal Zone: Estimates via Direct Counting and Parallel Measurement of Thymidine Incorporation 33
Ohtaguchi, K., see Swift, S. T., et al. 201
Olson, G. J., see Blair, W. R., et al. 241
Pfister, D. H.: *Book Review,* Microbial Ecology of the Phylloplane, edited by J. P. Blakeman 99
Rasool, K. A., Wimpenny, J. W. T.: Mixed Continuous Culture Experiments with an Antibiotic-Producing Streptomycete and *Escherichia coli* 267
Riemann, B., Fuhrman, J., Azam, F.: Bacterial Secondary Production in Freshwater Measured by ^{3}H-thymidine Incorporation Method 101
Roberts, N. C., Siebeling, R. J., Kaper, J. B., Bradford, Jr., H. B.: Vibrios in the Louisiana Gulf Coast Environment 299
Roberts, N., see Xu, H.-S., et al. 313
Rogerson, A., see Baldock, B. M., et al. 55
Rollins, D. M., see LeChevallier, M. W., et al. 325
Rosini, G., Federici, F., Martini, A.: Yeast Flora of Grape Berries During Ripening 83
Rushforth, S. R., Felix, E. A.: Biotic Adjustments to Changing Salinities in the Great Salt Lake, Utah, USA 157
Sawyer, T. K., see Daggett, P.-M., et al. 371
Seidler, R. J., see LeChevallier, M. W., et al. 325
Sheehan, D. J., see Janda, J. M., et al. 335
Shilo, M.: *Book Review,* The Prokaryotes, edited by M. P. Starr, et al. 279
Siebeling, R. J., see Roberts, N. C., et al. 299
Singleton, F. L., see Xu, H.-S., et al. 313
Smith, V. R., Steyn, M. G.: Soil Microbial Counts in Relation to Site Characteristics at a Subantarctic Island 253
Søndergaard, M., see Jensen, L. M. 47
Spurrier, J. D., see Chrzanowski, T. H., et al. 139
Starmer, W. T.: Analysis of the Community Structure of Yeasts Associated with the Decaying Stems of Cactus. I. *Stenocereus gummosus* 71
Starmer, W. T., see Lachance, M-A., et al. 191
Stevenson, L. H., see Chrzanowski, T. H., et al. 139
Steyn, M. G., see Smith, V. R. 253
Swift, S. T., Najita, I. Y., Ohtaguchi, K., Fredrickson, A. G.: Some Physiological Aspects of the Autecology of the Suspension-Feeding Protozoan *Tetrahymena pyriformis* 201
Taylor, D. N., Brown, M., McDermott, K. T.: Waterborne Transmission of *Campylobacter enteritis* 347
Trevors, J. T., Mayfield, C. I., Inniss, W. E.: Measurement of Electron Transport System (ETS) Activity in Soil 163
Tully, J. G., see Clark, T. B., et al. 401

Tully, J. G., see Mouches, C., et al. 387
Vestal, J. R., see Federle, T. W., et al. 127
Weiss, E., see Westfall, H. N., et al. 287
Westfall, H. N., Myers, W. F., Weiss, E.: Detection of *Legionella* Antibodies by Enzyme-linked Immunosorbent Assay (ELISA) Using Whole Cell and Carbohydrate Antigens 287
Whitcomb, R. F., see Clark, T. B., et al. 401
Wimpenny, J. W. T., see Rasool, K. A. 267
Xu, H.-S., Roberts, N., Singleton, F. L., Attwell, R. W., Grimes, D. J., Colwell, R. R.: Survival and Viability of Nonculturable *Escherichia coli* and *Vibrio cholerae* in the Estuarine and Marine Environment 313